Chemical Analysis Report

SO-DIST-2021-04-13-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **2021 SMP: Tri-County Fair**
Request ID: **RQ-2021-04-12-60**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: Chris Hormuth

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 05-MAY-2021 15:15

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: C-139 Annex @ Deer Fence Canal Rd. **Collection Date/Time: 04/12/2021 10:30**

Field ID: G1SD0076 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2239081	EPA 180.1 Rev. 2.0	Turbidity	6.1	A	NTU	P396480	
	EPA 300.0 Rev. 2.1	Chloride	34		mg Cl/L	P396747	
		Sulfate	9.4		mg SO4/L	P396750	
	SM 2120 B-2011	Color (true)	81		PCU	P396471	
	SM 2320 B-2011	Total Alkalinity	199		mg CaCO3/L	P396580	
	SM 2540 C-2011	TDS	294		mg/L	P396988	
	SM 2540 D-2011	TSS	7	I	mg/L	P396814	
	SM 4500 F-C-2011	Fluoride	0.31		mg F/L	P396583	
2239082	EPA 350.1 Rev. 2.0	Ammonia-N	0.067		mg N/L	P396761	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P396916	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P396630	
	EPA 365.1 Rev. 2.0	Total-P	0.20		mg P/L	P396640	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P396953	
2239083	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P396464	
2239088	EPA 8276	Chlordane	5.9	U	ng/L	P396449	
		Toxaphene	35	U	ng/L	P396449	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8276: Insufficient sample available to perform duplicate matrix spikes.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P396480

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P396747

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P396750

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P396761

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P396916

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P396630

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P396640

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P396464

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8276
Batch ID: P396449

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P396471

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P396580

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2011
Batch ID: P396988

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P396814

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P396583

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P396953

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P396747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P396750

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P396761

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	102		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P396916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	103		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P396630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P396640

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	103		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P396464

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.1		P	90 - 110

Reference Method: EPA 8276
Batch ID: P396449

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	99.6	99.8	P/P	56 - 117
Toxaphene	87.2	80.3	P/P	45 - 116

Reference Method: SM 2120 B-2011
Batch ID: P396471

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P396580

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P396583

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P396953

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P396747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2238906	Chloride	103		P	90 - 110
2239205	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P396750

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2238906	Sulfate	103		P	90 - 110
2239205	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P396761

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2239233	Ammonia-N	97.0	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P396916

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2239049	Kjeldahl Nitrogen	107	111	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P396630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2239210	NO2NO3-N	98.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P396640

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2239055	Total-P	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P396464

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2238988	O-Phosphate-P	95.8	95.4	P/P	90 - 110

Reference Method: EPA 8276
Batch ID: P396449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2239088	Chlordane	95.7		P	47 - 128
2239088	Toxaphene	82.3		P	11 - 163

Reference Method: SM 4500 F-C-2011
Batch ID: P396583

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2239206	Fluoride	98.3	98.3	P/P	94 - 107

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P396953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2239209	Organic Carbon	99.6	99.8	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P396480

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2239081	Turbidity	2.30	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P396747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2238906	Chloride	0.0200	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P396750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2238906	Sulfate	0.102	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P396761

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2239233	Ammonia-N	6.47	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P396916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2239049	Kjeldahl Nitrogen	2.26	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P396630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2239210	NO2NO3-N	0.954	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P396640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2239055	Total-P	1.10	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P396464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2238988	O-Phosphate-P	0.397	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P396449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	0.134	LCS	P	0 - 30
LFB	Toxaphene	8.26	LCS	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P396471

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2239054	Color (true)	0.616	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P396580

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2239206	Total Alkalinity	0.626	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P396988

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2239054	TDS	6.50	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P396583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2239206	Fluoride	0.0	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P396953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2239209	Organic Carbon	0.150	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report
Surrogates

Lab Sample ID: 2239088
Field Sample ID: G1SD0076

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	46.5	P	29 - 92.0
EPA 8276	PCNB	58.8	P	43 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A104682
Included Lab Sample IDs: 2239081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	102	P/P	90 - 110
Sulfate	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A104702
Included Lab Sample IDs: 2239083

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.3	99.5	P/P	90 - 110

Reference Method: SM 2120 B-2011
Run ID: A104703
Included Lab Sample IDs: 2239081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	103	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A104704
Included Lab Sample IDs: 2239081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	102	P/P	95 - 105

Reference Method: SM 2320 B-2011
Run ID: A104740
Included Lab Sample IDs: 2239081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	97.7	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A104740
Included Lab Sample IDs: 2239081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A104763
Included Lab Sample IDs: 2239082

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A104782
Included Lab Sample IDs: 2239082

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	105	103	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A104806
Included Lab Sample IDs: 2239082

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.4	95.7	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A104880
Included Lab Sample IDs: 2239088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.9		P	80 - 120
Toxaphene	100		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A104901
Included Lab Sample IDs: 2239082

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	96.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A104924
Included Lab Sample IDs: 2239082

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.2	101	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						2.30	
EPA 300.0 Rev. 2.1	Chloride	104		103	104		0.0200	
	Sulfate	105		103	104		0.102	
EPA 350.1 Rev. 2.0	Ammonia-N	102		97.0	106			6.47
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103		107	111			2.26
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0		98.5	100			0.954
EPA 365.1 Rev. 2.0	Total-P	103		102	101			1.10
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1		95.8	95.4			0.397
EPA 8276	Chlordane	99.6	99.8	95.7		0.134		
	Toxaphene	87.2	80.3	82.3		8.26		
SM 2120 B-2011	Color (true)	102					0.616	
SM 2320 B-2011	Total Alkalinity	101					0.626	
SM 2540 C-2011	TDS						6.50	
SM 4500 F-C-2011	Fluoride	98.7		98.3	98.3			0.0
SM 5310 B-2011	Organic Carbon	97.8		99.6	99.8			0.150

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2239081
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2239081
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2239081
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2239082
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2239082
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2239082
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2239082
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2239083
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2239088
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2239081
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2239081
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2239081
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2239081
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2239081
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2239082

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	04/13/2021			04/13/2021 16:17	Yen Ta	2239081
EPA 300.0 Rev. 2.1	04/13/2021			04/17/2021 06:57	Lipi Saha	2239081
EPA 350.1 Rev. 2.0	04/13/2021			04/18/2021 16:17	Ping Hua	2239082
EPA 351.2 Rev. 2.0	04/13/2021	04/21/2021 14:43	Benjamin T. Nordmann	04/22/2021 16:35	Virginia P. Brown	2239082
EPA 353.2 Rev. 2.0	04/13/2021			04/15/2021 14:47	Lauren Lees	2239082
EPA 365.1 Rev. 2.0	04/13/2021	04/15/2021 17:39	Madeline Gruver	04/16/2021 11:01	Shengyu Ding	2239082
EPA 365.1 Rev. 2.0 dissolved	04/13/2021			04/13/2021 14:13	Patrick M. Roche	2239083
EPA 8276	04/13/2021	04/14/2021 08:00	Rasheda Ghaffari	04/18/2021 06:27	Chiran X. Ghimire	2239088
SM 2120 B-2011	04/13/2021			04/13/2021 16:02	Blanca Fach	2239081
SM 2320 B-2011	04/13/2021			04/14/2021 23:58	Dale L. Simmons	2239081
SM 2540 C-2011	04/13/2021			04/16/2021 15:12	Yijie Li	2239081
SM 2540 D-2011	04/13/2021			04/16/2021 15:36	Yijie Li	2239081
SM 4500 F-C-2011	04/13/2021			04/14/2021 23:58	Dale L. Simmons	2239081
SM 5310 B-2011	04/13/2021			04/21/2021 16:38	Lauren Lees	2239082